

AMENDMENTS TO THE CLAIMS

This listing of Claims replaces all prior versions and listings of Claims. Only those Claims being amended herein show their changes in highlighted form, where insertions appear as underlined text (e.g., insertions) while deletions appear as strikethrough text or brackets (e.g., ~~deletions~~ or [[deletions]]).

Please amend Claims 26, 28-31, 33, 35, 37, 40, 43 and 45-47 as shown below.

Please cancel Claims 44 and 48-52.

1.-25. (Cancelled)

26. (Currently Amended) A method of controlling traffic on a data network, said traffic comprising payload data and associated ~~signalings~~signalling data, the method comprising:

reading a portion of said payload data for a first traffic of a communications session between a first entity and a second entity communicating over said network;

determining whether said portion of payload data identifies a traffic content type ~~of traffic~~ to be controlled;

storing signaling data associated with said portion of payload data;

reading signaling data for a second traffic of a further or resumed communications session on said network and comparing said read signaling data with said stored signaling data to identify said second traffic as a further traffic of said controlled traffic content type; and

controlling said further or resumed communication~~traffic~~ session responsive to said identification.

27. (Previously Presented) A method as claimed in Claim 26, wherein said controlling comprises controlling a route of said further or resumed communications session traffic.

28. (Currently Amended) A method as claimed in Claim 26, wherein said reading of signaling data for the second traffic~~said communications session traffic~~ includes reading at least a portion of said signaling data for said ~~session~~second traffic, wherein said ~~method~~determining includes determining from said signaling data an address of an originator of said further or resumed communications session~~controlled type of traffic~~, said originator

comprising one of said first and second entities, and wherein said method~~signaling~~ comprises sending a signal to said originator using said determined address.

29. **(Currently Amended)** A method as claimed in Claim 26, wherein said controlling~~signaling~~ comprises signaling with said signaling data.

30. **(Currently Amended)** A method as claimed in Claim 26, wherein said controlling~~signaling~~ comprises sending a message in said payload data.

31. **(Currently Amended)** A method as claimed in Claim 30, wherein said message includes a request to retry establishing said further or resumed communications session.

32. **(Previously Presented)** A method as claimed in Claim 26, wherein said storing is responsive to said determining.

33. **(Currently Amended)** A method as claimed in Claim 26, wherein said ~~communications session traffic~~ reading of the portion of said payload data for the first traffic comprises reading first payload data for a communication from said first to said second entity and second payload data for a communication from said second to said first entity, and wherein said determining whether said portion of payload data identifies a controlled traffic content type ~~of traffic~~ determines whether both said first and said second payload data are of said controlled traffic content type.

34. **(Previously Presented)** A method as claimed in Claim 33, further comprising buffering said first and second payload data for said determining.

35. **(Currently Amended)** A method as claimed in Claim 26, wherein said determining comprises comparing said payload data with a signature of said controlled traffic content type ~~of traffic~~.

36. **(Previously Presented)** A method as claimed in Claim 26, further comprising signaling, responsive to said determining, to at least one of said first and second entities to interrupt said communications session.

37. **(Currently Amended)** A method as claimed in Claim 26, wherein said second ~~further~~ traffic comprises an attempt to begin a further communications session of said controlled traffic content type or to resume said communications session, and wherein said controlling comprises controlling traffic of said further or resumed communications session.

38. **(Previously Presented)** A method as claimed in Claim 26, wherein said network comprises a packet data network and wherein said signaling data includes a destination identifier.

39. **(Previously Presented)** A method as claimed in Claim 38, wherein said network comprises an internet protocol (IP) network, in particular a transmission control protocol (TCP) IP network, and wherein said signaling data includes a destination address and port number.

40. **(Currently Amended)** A method as claimed in Claim 26, wherein said traffic content type of traffic to be controlled includes peer-to-peer protocol network traffic employing a variable TCP port number for peer-to-peer connections.

41. **(Previously Presented)** A method as claimed in Claim 40, wherein said controlling comprises routing said peer-to-peer traffic to a peer-to-peer network gateway.

42. **(Previously Presented)** A method as claimed in Claim 40, wherein said controlling comprises routing said peer-to-peer traffic to a peer-to-peer network cache.

43. **(Currently Amended)** ~~Processor control code~~ A computer-readable medium having computer-executable instructions stored thereon which cause a general-purpose computer to perform a method to, when running, control traffic on a data network, said traffic comprising payload data and associated signaling data, the code comprising, the method comprising:

~~code to read~~ reading a portion of said payload data for a first traffic of a communications session between a first entity and a second entity communicating over said network;

~~code to determine~~ determining whether said portion of payload data identifies a traffic content type of traffic to be controlled;

~~code to store~~ storing signaling data associated with said portion of payload data;

~~code to read~~ reading signaling data for a second traffic on said network;

~~and to compare~~ comparing said read signaling data with said stored signaling data to identify an attempt to begin a further communications session of said ~~identified~~ controlled traffic content type or to resume said communications session; and

~~code to control traffic of~~ controlling said further or resumed communications session responsive to said identification.

44. **(Canceled)**

45. (**Currently Amended**) A router for controlling traffic on a data network, said traffic comprising payload data and associated signaling data, the router comprising:

a network interface for interfacing with said data network;

a data memory operable to store data to be processed;

an instruction memory storing computer-executable~~processor-implementable~~ code; and

a processor coupled to said network interface, to said data memory, and to said instruction memory and operable to process said data in accordance with computer-executable code stored in said instruction memory, ~~said stored code comprising whereby said processor is configured to:~~

~~code to~~ read a portion of said payload data for a first traffic of a communications session between a first entity and a second entity communicating over said network;

~~code to~~ determine whether said portion of payload data identifies a ~~type of~~ traffic content type to be controlled;

~~code to~~ store signaling data associated with said portion of payload data;

~~code to~~ read signaling data for a second traffic on said network and to compare said read signaling data with said stored signaling data to identify an attempt to begin a further communications session of said ~~identified~~controlled traffic content type or to resume said communications session; and

~~code to~~ control traffic of said further or resumed communications session responsive to said identification.

46. (**Currently Amended**) A router as claimed in Claim 45, wherein network comprises a packet data network, wherein said signaling data comprises a destination identifier to identify a destination of a packet of data comprising said first traffic, and wherein said storing stores a destination identifier for said first traffic of said controlled traffic content type in said data memory responsive to identifying said controlled ~~type of~~ traffic content type.

47. (**Currently Amended**) A router as claimed in Claim 46, wherein said processor is further configured to:

~~code further comprises code to~~ store portions of said payload data of said communications session sent from both said first and said second entity; and

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~~wherein said code to determine whether said payload data identifies traffic of said controlled type is configured to determine when communications from both said first and second entities are of a said controlled traffic content type.~~

48.-52. (Canceled)